## CLAIMS

## What Is Claimed Is:

- 1 1. A lighting apparatus for a liquid crystal display
- 2 comprising:
- 3 a. an array of light emitting diodes disposed
- 4 alongside said liquid crystal display for providing
- 5 illumination thereof;
- 6 b. light pipes for transmitting light from said
- 7 light emitting diodes across a plane parallel with said
- 8 liquid crystal display; and,
- 9 c. a filter disposed between said array and said
- 10 light pipes for filtering out infra-red light from said
- 11 light emitting diodes.
- 1 2. An apparatus as in Claim 1 wherein said array of
- 2 light emitting diodes include diodes emitting only red
- 3 light.
- 1 3. An apparatus as in Claim 1 wherein said array of
- 2 light emitting diodes include diodes emitting only blue
- 3 light.

- 1 4. An apparatus as in Claim 1 wherein said array of
- 2 light emitting diodes include diodes emitting only green
- 3 light.
- 1 5. An apparatus as in Claim 1 including a pair of light
- 2 emitting diode arrays disposed on two sides of said light
- 3 pipes.
- 1 6. An apparatus as in Claim 5 including a pair of infra-
- 2 red filters disposed between each of said arrays of light
- 3 emitting diodes and said light pipes.
- 1 7. An improved lighting apparatus for a liquid crystal
- 2 display in the cockpit of an aircraft, said apparatus
- 3 comprising:
- 4 a. a pair of light emitting diode arrays disposed
- 5 alongside said liquid crystal display for providing
- 6 illumination thereof;
- 5 b. light pipes for transmitting light from said
- 8 light emitting diode arrays across a plane parallel with
- 9 and alongside said liquid crystal display; and,
- 10 c. filters disposed between each of said arrays and
- 11 said light pipes for filtering out infra-red light from
- 12 said light emitting diodes.

- 1 8. An apparatus as in Claim 7 wherein each of said
- 2 arrays of light emitting diodes include diodes emitting
- 3 only red light.
- 9. An apparatus as in Claim 7 wherein each of said
- 2 arrays of light emitting diodes include diodes emitting
- 3 only blue light.
- 10. An apparatus as in Claim 7 wherein each of said
- 2 arrays of light emitting diodes include diodes emitting
- 3 only green light.
- 1 11. A method for illuminating a liquid crystal display
- 2 for viewing by:
- 3 a. activating an array of light emitting diodes of
- 4 a first color adjacent light pipes disposed alongside said
- 5 liquid crystal display; and,
- 6 b. filtering infra-red light emitted by said array
- 7 of light emitting diodes.
- 1 12. The method as in Claim 11 wherein said first color is
- 2 red.
- 13. The method as in Claim 11 wherein said first color is
- 2 green.

- 1 14. The method as in Claim 11 wherein said first color is
- 2 blue.
- 1 15. A method for illuminating a liquid crystal display in
- $2\,$  an aircraft cockpit for viewing by a pilot wearing infra-
- 3 red goggles, said method comprising:
- 4 a. activating an array of light emitting diodes
- 5 adjacent light pipes disposed alongside said liquid
- 6 crystal display;
- 7 b. filtering infra-red light emitted by said array
- 8 of light emitting diodes; and,
- 9 c. switching colors of said light emitting diodes
- 10 as required by a pilot of the aircraft.
- 1 16. The method as in Claim 11 wherein said step of
- 2 switching colors further includes switching on only those
- 3 light emitting diodes emitting red light.
- 1 17. The method as in Claim 11 wherein said step of
- 2 switching colors further includes switching on only those
- 3 light emitting diodes emitting blue light.
- 1 18. The method as in Claim 11 wherein said step of
- 2 switching colors further includes switching on only those
- 3 light emitting diodes emitting green light.